

Product datasheet for **SC116778**

MPP2 (NM_005374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_005374) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPP2
Synonyms:	DLG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116778 sequence for NM_005374 edited (data generated by NextGen Sequencing)

```

ATGCCGGTTGCCGCCACCAACTCTGAAACTGCCATGCAGCAAGTCTGGACAACCTGGGA
TCCCTCCCAGTGCCACGGGGGCTGCAGAGCTGGACCTGATCTTCCTTCGAGGCATTATG
GAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCATGAGAGGCTGGAGGAGACGAAGCTG
GAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCCTCGGGACCTGGCCGAN
NTGGCTGAGCAGAGCAGCACAGCCGCGAGCTGGCCACATCCTCCAGGAGCCCCACTTC
CAGTCCCTCCTGGAGACGCACGACTCTGTGGCCTCAAAGACCTATGAGACACCACCCCC
AGCCCTGGCCTGGACCCTACGTTTCAGCAACCAGCCTGTACCTCCCAGTGTGTGCGCATG
GTGGGCATCCGCAAGACAGCCGGAGAACATCTGGGTGTAACGTTCCGCGTGGAGGGCGGC
GAGCTGGTGATCGCGCGATTCTGCATGGGGGCATGGTGGCTCAGCAAGGCCTGTGCAT
GTGGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGGGCAGTGACCCCCGCGCACTG
CAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCAAGATCCTGCCAGCTACCAG
GAGCCCCATCTGCCCGCCAGGTATTTGTGAAATGTCACTTTGACTATGACCCGGCCCGA
GACAGCCTCATCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGGACTTGTCCAG
ATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTGGAAGGGGGCAGTGCT
GGGCTCATTCCCAGCCAGCTGCTGGAGGAGAAGCGGAAAGCATTGTCAAGAGGGACCTG
GAGCTGACACAAACTCAGGGACCTATGCGGCAGCCTTTCAGGAAAGAAAAGAAGCGA
ATGATGTATTTGACCACCAAGAATGCAGAGTTTGACCGTCATGAGCTGCTATTTATGAG
GAGGTGGCCCGCATGCCCGGTTCCGCCGAAAACCTGGTACTGATTGGGGCTCAGGGC
GTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGGATCCAGATCGCTATGGCACC
ACGGTGCCTACACCTCCCGCGGCCGAAAGACTCAGAGCGGGAAGGTCAGGGTTACAGC
TTTGTGCCGTGGGGAGATGGAGGCTGACGTCGCTGCTGGGCGTACCTGGAGCATGGC
GAATACGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGTTCGCTGCT
GGGAAGGTGTGCGTGTGGATGTCAACCCCGAGCGGTGAAGGTGCTACGAACGGCCGAG
TTTGTCCCTTACGTGGTGTTCATCGAGGCCCCAGACTTCGAGACCCTGCGGGCCATGAAC
AGGGCTGCGCTGGAGAGTGAATATCCACCAAGCAGCTCACGGAGGGCGGACCTGAGACGG
ACAGTGGAGGAGAGCAGCCGATCCAGCGGGGCTACGGGCACTACTTTGACCTCTGCCTG
GTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGG
ACAGAGCCCCAGTGGGTGCTGTCAGCTGGGTGACTGA
    
```

Clone variation with respect to NM_005374.3
 240 c=>n;241 g=>n;381 a=>g;525 a=>g

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_005374 unedited
TAGATTTTGTAAACGACTTCACTATAGGGCGGCCGCAATTTCGACAGGGGCTGAGCGC
CCGGCTGCGCTGGAGCCCGGAGCTAGGGGCTTCCCGGGCGCAGGAGAGACGTTTCA
GAGCCCTTGCTCCTTACCATGCGGTTGCCGCCACCAACTCTGAAACTGCCATGCAGC
AAGTCCTGGACAACCTGGGATCCCTCCCAAGTGCACGGGGGCTGCAGAGCTGGACCTGA
TCTTCTTCGAGGCATTATGAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCCATGAGA
GGCTGGAGGAGACGAAGCTGGAGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGA
TCCTGCGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCCGGAGCTGGCCACA
TCCTCCAGGAGCCCCACTTCCAGTCCCTCCTGGAGACGCAGACTCTGTGGCCTCAAAGA
CCTATGAGACACCACCCCGAGCCCTGGCCTGGACCCTACGTTTCAGCAACCAGCCTGTAC
CTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAGCCGGAGAACATCTGGGTGTA
CGTTCGCGTGGAGGGCGCGAGCTGGTATCGCGCGCATTCTGCATGGGGGCATGGTGG
CTCAGCAAGGCCTGCTGCATGTGGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGG
GCAGTGACCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCA
AGATCCTGCCAGCTACCAGGAGCCCCATCTGCCCGCCAGGNTATTGTGGAAATGTCAC
TTTGACTATGACCCGNCAGAACAGNCTCATCCCTGCAAGGAAGCAGCCTGCGCTTACN
GCCGGGACTTGTCCAGATCGTAACCCAGATGATGCCACTGGTGGCAGCATGCTTGTCAA
GAGGGCCANTGCTGGGCTCATTCCANCACTGCTGGAGAA
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005374 unedited CTTTTGCTATTNATNCCAGGGNAAAAGTAAGNAAAACCAANCAGTGNAGNAAAACCTCAAN AATTGGATGGCTGAGGGAGGGAACAGAGGAAGCGCACTGGGGCTGGGACTGAATATGGAC AGTGGATGGTAGGGTCTCACTCTTTGAGGTCCTCAAATACAAGATCCACAATGGCA GGGAGGGAGAACAGATCATAGAGCTGTGGTGGGGGCACACACCTGTTCCAACCCAGCCC CAGCCCTGTTCCAGGTGAGCCAAGGACTGACAGCCTCTGCTAGGTACCTGGGAGGGCTGT GGAGTGAGGGCTCAGGCAGGGGAGGTAGGAGGCTGCTCAGAGAGGAAAGACCGAGAAGAG ACAGGAGGGAAGGGCCCCAGGCCTGCCCTTGAGCATCCCTAGCAGTGAAGGTGCCATGA AGGCCAGGTACCCAACCCATCTCCATCAGAGATGATGGTCATTTGGATCAAGGGGCGAGA AGCAACTGCAACAACAGATCTTCCCCTGCCTCTACCCTCAAATCCCCAGAGAAGGTAGG AAATGGCAAGTGACCCTATAGCCTCAGGTCAGCAAGAAAACACCCATTTCCTTCCCCT CCCTTAGGCTGAGGGTGTGCAAGGCAGAGCTGAATCAGGATGAAAGGACACTGACTAAG GGGAAAAGAGGAGCANGAGAATGAGTGTGTAGTATACGCAGAGCCACACCAACGAGATGGG GGCAGGCCTGGCCTTTCCACCCCATGTGTATAGTCTATGCAAATGCAAATGAGATTCCCTA GTATAAGAAATATATTCTAACTTTGGATAAATATTCTGTTTATTCTCCTTCCCCTTCCCTA AGAAATGGCACACAGTGGNTTAGGGCCAACCTTTGGCTGACGCTGCAGCGAAAACCTAAT TAGAACCTTGGAAAGAACTGGGAGGCCAGGGGTTGACCCAGGTTGTCCCAGGTG
Restriction Sites:	NotI-NotI
ACCN:	NM_005374
Insert Size:	4530 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005374.3 , NP_005365.3
RefSeq Size:	4412 bp
RefSeq ORF:	1659 bp
Locus ID:	4355
UniProt ID:	Q14168
Cytogenetics:	17q21.31
Domains:	SH3, PDZ, L27, Guanylate_kin, GuKc

Protein Families: Druggable Genome

Gene Summary: Palmitoylated membrane protein 2 is a member of a family of membrane-associated proteins termed MAGUKs (membrane-associated guanylate kinase homologs). MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intracellular junctions. Palmitoylated membrane protein 2 contains a conserved sequence, called the SH3 (src homology 3) motif, found in several other proteins that associate with the cytoskeleton and are suspected to play important roles in signal transduction. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) differs in the 5' UTR and represents use of an alternate promoter, compared to variant 1. Variants 3 and 9 encode isoform 3 which has a shorter N-terminus compared to isoform 1.